



100% BEARING AREA (SQ. FT.)

PIPE SIZE	DEAD END OR TEE	90° ELBOW	45° ELBOW	22 1/2° ELBOW
4	2.4	3.4	1.9	0.9
6	4.9	6.9	3.8	1.9
8	8.4	11.8	6.4	3.4
10	13.7	19.3	10.5	5.4
12	19.4	27.3	14.9	7.7
14	26.3	37.0	20.1	10.3
16	34.0	47.9	26.2	13.3
18	43.9	61.8	33.7	17.2
20	54.3	76.4	41.7	21.2
24	77.9	109.8	59.8	30.5

NOTE:
BEARING AREAS ARE BASED ON 250 lb. MAXIMUM PRESSURE AND SOIL BEARING STRENGTH OF 2000 lb./SQ. FT.

NOTE:
FIGURE (100%) AT THRUST BLOCK INDICATES PER CENT OF TOTAL THRUST TO BE APPLIED FOR BEARING AREA.

NOTE:
ARROWS (—) INDICATE THRUST DIRECTION.

NOTE:
(1.) CONCRETE FOR THRUST BLOCKS TO BE 2000 P.S.I.

(2.) THRUST BLOCKS TO BE SOLID CONCRETE.

(3.) SEE SOILS REPORT FOR BEARING STRENGTH OF SOIL. IN ABSENCE OF A SOILS REPORT, AN AVERAGE SOIL (SPADABLE MEDIUM CLAY) CAN BE ASSUMED TO HAVE A BEARING STRENGTH OF 2000 lb./SQ. FT.

(4.) POURED INPLACE CONCRETE THRUST BLOCKING IS NOT ALLOWED.

THRUST BLOCKS FOR WATERMAIN / FORCEMAIN

NOT TO SCALE

PLATE 6023

THRUST BLOCKS FOR WATERMAIN / FORCEMAIN

STANDARD DETAIL
PLATE NO:
6023

APPROVED: ADOPTED BY CITY COUNCIL ON DECEMBER 12, 2005

REVISED:

REMARKS:

SAINT PETER UTILITY STANDARD DETAIL

